CLAIMS

1. A system for delivering a biologic agent and providing an implantable medical device, comprising:

an implantable medical device (IMD) for monitoring cardiac function;

a reservoir for containing and dispensing a solution containing a biologic;

a lead coupled to the implantable medical device and positionable at a target area within a heart for transmitting signals indicative of cardiac function to the IMD; and

a lumen coupleable to the reservoir and positionable within the lead to allow the solution to be delivered to the target area.

2. The system of claim 1, wherein the lead transmits signals indicative of a position of the lead within the heart.

3. The system of claim 1, wherein the IMD monitors the efficacy of the biologic.

4. The system of claim 3, wherein the IMD provides device based therapy if the efficacy of the biologic agent is below a predetermined threshold.

5. The system of claim 3, wherein the IMD ablates the targeted are if the efficacy is below a predetermined threshold after a predetermined period of time.

6. The system of claim 1, wherein a supplemental introduction of the biologic can be delivered to the target area.

7. The system of claim 1, wherein the reservoir is implantable.

8. The system of claim 7, wherein the reservoir is disposed within the IMD.

9. The system of claim 8, wherein the IMD further comprises a self-closing access port in fluid communication with the reservoir, permitting an introduction of material into the reservoir post implant.

10. The system of claim 6, wherein the IMD further comprises a self-closing access port in fluid communication with the lumen, permitting the supplemental introduction to occur through the lumen.

11. A method of treating a cardiac condition, comprising:

placing a lead having an electrode and an anchor at a target area within the heart;

introducing a lumen through the lead;

dispensing a solution containing a biologic through the lumen into the target area;

coupling the lead with an implantable medical device;

monitoring cardiac performance; and

delivering device based therapy as required by the cardiac performance.

12. The method of claim 11, further comprising ablating the target are if monitoring indicates the biologic has failed to achieve a predetermined level of efficacy.

13. The method of claim 11, further comprising pausing the delivery of the device based therapy if the monitoring indicates the biologic as achieved a predetermined level of efficacy.

14. The method of claim 11, further comprising accessing the lumen post implant and dispensing a supplemental material.

15. The method of claim 14, where accessing the lumen includes exposing a portion of the implantable medical device post implant.

16. The method of claim 14, wherein accessing the lumen includes piercing a self closing access port disposed on the implantable medical device and in fluid communication with the lumen, via a syringe.

17. A system for delivering a biologic and providing a therapy backup comprising:

means for delivering a biologic to a targeted anatomical position;

means for monitoring a physiological performance of the anatomical position; and

means for selective providing device based therapy based on the monitored physiological performance.

18. The system of claim 17, further comprising:

means for delivering a supplemental material to the targeted anatomical position.

19. The system of claim 17, wherein the means for delivering include an implantable reservoir.

20. The system of claim 17, further comprising means for selectively terminating the biologic post delivery.

21. The system of claim 20, wherein the means for selectively terminating including ablating means.

22. The system of claim 17, further comprising means for overdrive pacing regardless of the monitored physiological performance.